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MATERIAL HANDLING – ITS ROLE, DESIGN & TYPES

Material handling can be referred to as equipments designed especially to cater to the needs of organizations looking to transport their materials or products from one place to another. This process most typically involves a short distance. Equipments such as wire ropes sheaves, wire rope pulleys, **material handling lift**



trucks and many more among others, are the different types of material handlers that fall under the former category.

This process of transportation is an important asset to the world of industries who are into material handling. The design involving a system that revolves around a small circumference of an organization is truly an art, in itself. Manufacturers of such mediums of transport built these systems

with a purpose of providing the four most important segments of an industrial organization, i.e. transportation, protection, control and storage. Its Primary Roles

Following are a few important roles that material handling systems play:-

- Contribute towards the economy

They are a growing sector and thereby contribute greatly towards the manufacturing and the logistics industry. This, in turn, helps in the economic growth of a nation. In fact, a study even reported that almost all physical commerce organizations utilize this medium of transport by making use of **material handling conveyors** for their activity. This kind of demand greatly stabilizes the consequent demand and supply chain of a rich market.



- A medium of convenience

The most obvious role that material handling systems play is the fact that they are a great tool that helps reduce the time and energy applied towards an activity that involves transportation of products. They are highly convenient for business owners.

- Reduces costs

Material handling equipments reduce the cost of manual labour that companies have to bear by employing human staff. Industries are no longer required to invest money in short term services that can help them do the job. Instead, they can easily invest in services that last longer and make the work get done much faster and in a better manner as well. And material handling equipments, in this regard, are considered to be the best options.



Its Types

The two types of material handling machines that exist in the market include:

- Manual handling

- 1) Manual handling can be referred to as a process under which manual labour is typically involved in performing various activities of moving containers. These activities include lifting, emptying, carrying and so on.
- 2) This kind of labour poses a potential threat for the labours involved as they can possibly face an injury or an accident during the process.
- 3) There are certain improvements such as balancers, hoists, manipulators, etc., which have been put to use to help prevent such situations from occurring.

- Automated handling

- 1) Automated handling can be referred to as the use of equipments or machines to help transport materials from one place to another.



- 2) There is, however, a need for a human operator that can help handle the equipment. For this sole reason, it is also referred to as a semi - automated machine.

